

PowerDish™

BY INFINIA

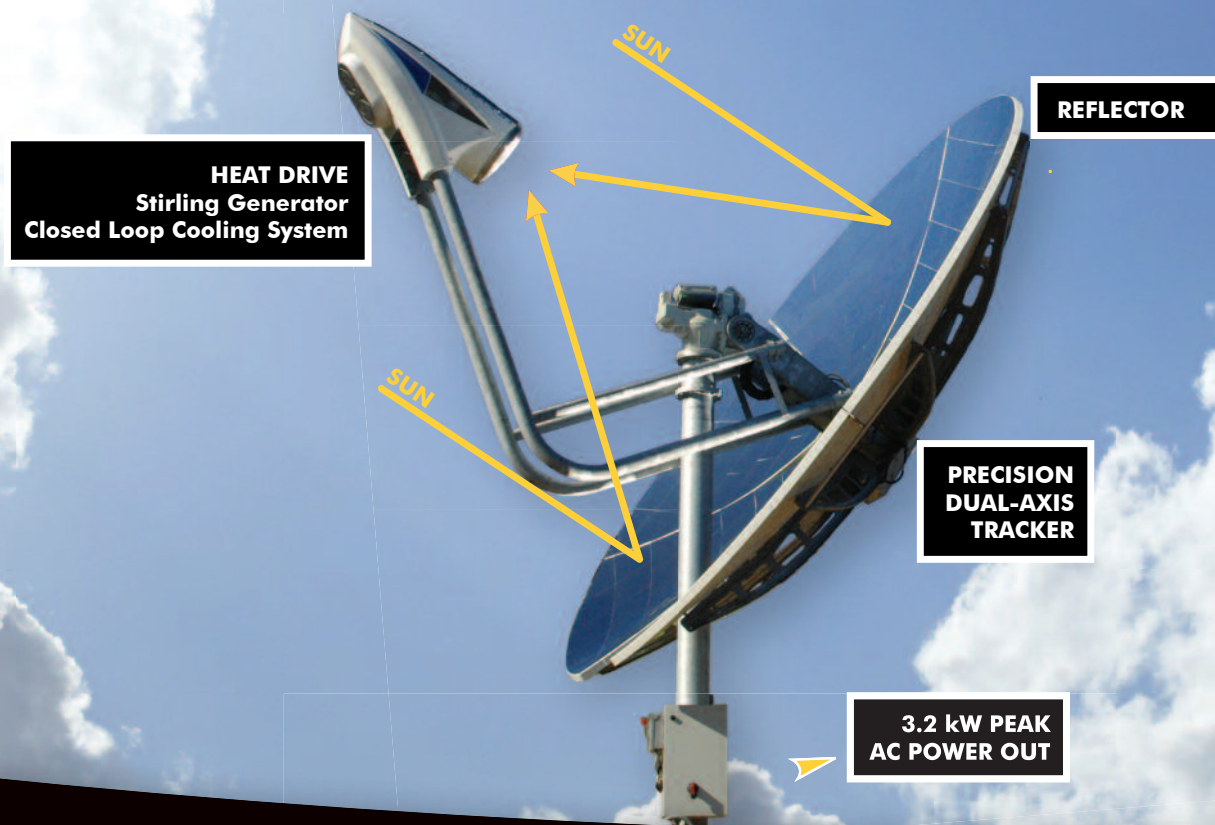
UNVEILING A SOLAR ENERGY SOLUTION FOR THE WORLD

The PowerDish converts the sun's heat into grid-quality AC power, generating more electricity at a lower cost and within a smaller footprint than competing technologies.

The PowerDish is simple and flexible, delivering high performance with proven reliability.



How it Works



PowerDish Technical Specifications

- 3.2 kW AC (STC DC approximate equivalent rating: 3.83 kW)
- 24% peak conversion efficiency
- Powered by a highly reliable, no-maintenance, free-piston Stirling engine
- Helium working fluid
- Sealed unit
- Closed-loop cooling system
- Precision dual-axis tracking
- Zero-alignment optics
- 240 VAC 1-phase, 208 VAC 3-phase
- 15.4 feet (4.7 m) diameter dish
- 21 feet (6.4 m) tall
- 1,900 lbs. (860 kg)
- CE Declaration of Compliance & CEC (California) Listed - in process; ETL Certified UL-1741 and IEEE 1547.1
- Five components easily transported and quickly assembled onsite: Heat Drive, Chassis, Reflector, Precision Dual-Axis Tracker & Power Electronics/Control System
- Quiet operation < 65 DbA at 10 meters (conversational volume)
- Requires minimal system maintenance. Coolant changed at 5-yr intervals, tracker oil every 10-yrs. Mirror cleaning to ensure maximum performance will be site-dependent

Full Infinia product warranty terms available on request.

*At rated input direct normal insolation (DNI) $\geq 1,000 \text{ W/m}^2$, at 20° C (68° F) ambient temperature, net power out at terminal, clean reflector, wind speed = 1 m/s

PowerDish Advantages

- 24% peak conversion efficiency
- PowerDish performs in high ambient temperatures
- Very low maintenance – 25-year service life
- No plumbing or water needed, other than for periodic washing
- Suitable for deployment on sloped terrain and hills
- Minimal environmental impact
- Produces more power per acre, reducing land usage
- Remote/unattended operation
- Certified and grid-safe
- Easily recyclable - no byproducts
- Modular from a single unit to utility-scale arrays numbering in the 1,000's
- Automotive scale production keeps costs low
- Rapid ROI: financial returns begin immediately
- Deployment is faster than other concentrating solar thermal technologies
- MADE IN THE USA 



Each year, one PowerDish Avoids up to:

- 13,361 pounds of Carbon Dioxide
- 68.7 pounds of Nitrogen Oxide
- 33 pounds of Sulfur Dioxide





CENTER: Villarrobledo, Spain
LEFT: Las Virgenes, California
RIGHT: Kennewick, Washington

INFINIA

FOCUS YOUR ENERGY

Infinia is focused on changing how the world creates energy. With a 25-year history of reliability for its proprietary, high-performance Stirling engines in a variety of applications in both Government and private sectors, Infinia has invented a revolutionary renewable energy solution – the PowerDish. A compelling and uniquely scalable solar power solution that will enable broad access to inexpensive solar power, the PowerDish is the world's first industrialized, mass-manufactured Stirling-based solar power system.

infiniacorp.com



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